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DESIGNED FOR USE WITH
RG-174/U OR EQUIVALENT

LOC
AJ

DIST
00

CABLE ENTRY DIAMETER
MINIMUM

CONTACT
.021

SLEEVE
.128

CLAMP NUT
.179

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
B		REV PER ECO 07-004710	3/12/2007	DW	KW
C		REVISED PER ECO-08-030676	25-02-09	AEG	JKO

1.500
(38.1mm) MAX

1.020
(25.9mm) REF

.705
(17.9mm) REF

.250 HEX
(6.4mm)

.312 HEX
(7.9mm)

..903
(22.9mm) REF

OSM PLUG

HEAT SHRINK TUBING

REF PLANE

1 BRASS

2 STAINLESS STEEL

3 BERYLLIUM COPPER

4 PTFE

5 GOLD PLATE

6 PASSIVATED

7 SILICONE RUBBER

8 NICKEL PLATE

9 NYLON OR ZYTEL

10 POLYOLEFIN COMPOUND

10	1 5	1 5	1 5	9	3 5	4	7	1 5	3	7	1 5	1051664-2
10	1 5	2 5	2 5	9	3 5	4	7	2 5	3	7	2 5	1051664-1
SHRINK TUBE	FERRULE	CLAMP NUT	SLEEVE	DIELECTRIC REAR	CONTACT	DIELECTRIC	"O" RING	HOUSING	LOCKING RING	GASKET	COUPLING NUT	TE PN

ELECTRICAL

Nominal Impedance (Ohms) 50

Frequency Range (GHz) DC to 12.4

Volt Rating (VRMS MAX)
@ Sea Level 250

VSWR 1.15+.02 f(GHz)

Insertion Loss (dB MAX) .06√f(GHz)

RF Leakage (dB MIN) -60

Dielectric Withstanding Voltage
(VRMS MIN) @ Sea Level 500

Contact Resistance (Milliohms MAX)
Center Contact 3.0
Outer Contact 2.0
Cable to Housing 0.5

RF High Potential @ Sea Level
(VRMS MIN @ 5 MHz) 500

I.R.(Megohms MIN) 10,000

MECHANICAL

Interface Dimensions MIL-STD-348A, Fig. 310.1

Recommended Mating
Torque 7-10 IN-LB

Mating Characteristics:
Insertion (MAX Lbs) N/A
Withdrawal (MIN Oz) N/A
Force to Engage and
Disengage (In-Lbs MAX) 2

Center Contact Captivation
Axial (Lbs) 6.0
Radial (In-Oz) N/A

Cable Retention
Axial Force (Lbs) 20 MIN
Torque (In-Oz) N/A
Weight (Grams) TBD

ENVIRONMENTAL

TEMPERATURE RATING -65°C TO +165°C

Vibration MIL-STD-202, Method 204, Condition D

Shock MIL-STD-202, Method 213, Condition I

Thermal Shock MIL-STD-202, Method 107, Condition C,

Moisture Resistance MIL-STD-202, Method 106,

Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

MATERIAL
-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -
1 PLC ± -
2 PLC ± -
3 PLC ± .005
4 PLC ± -
ANGLES ± 1°
FINISH
-

DWN
F.J.C
5/16/69

CHK
B.W.C
5/17/69

APVD
D.NANIA
5/20/69

PRODUCT SPEC
-

APPLICATION SPEC
-

WEIGHT
-

CUSTOMER DRAWING

Tyco Electronics

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME
OSM STRAIGHT CABLE
PLUG CRIMP ATTACHMENT
-

SIZE
A2

CAGE CODE
00779

DRAWING NO
C-1051664

RESTRICTED TO
-

SCALE
3:1

SHEET
1 OF 1

REV
C

1471-9 (1/08)